

Title (en)
VOLUME SEPARATION IN CAD MODELS

Title (de)
VOLUMENTRENNUNG IN CAD-MODELLEN

Title (fr)
SÉPARATION DE VOLUME DANS DES MODÈLES DE CONCEPTION ASSISTÉE PAR ORDINATEUR (CAO)

Publication
EP 3924860 A1 20211222 (EN)

Application
EP 19714046 A 20190315

Priority
US 2019022483 W 20190315

Abstract (en)
[origin: WO2020190261A1] Methods for CAD operations and corresponding systems (900) and computer-readable mediums (926) are disclosed herein. A method includes receiving (302) a model (100) of a part to be manufactured by a data processing system (900), wherein the model includes a first partial volume (102) connected via a gap (106) to a second partial volume (104). The method includes receiving (304) a wall-distance value (412) by the data processing system (900). The method includes applying (306), by the data processing system (900), the wall-distance value (412) to the first partial volume (102) of the model (100) to define an initial volume (414) having initial-volume boundaries (416). The method includes refining (308) the initial-volume boundaries (416) by the data processing system (900). The method includes generating (310) at least one new surface (822) in the model (100) by the data processing system (900). The method includes storing (312) a modified model (800) of the part to be manufactured by the data processing system (900), including the new surface (822).

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G06F 30/00 (2020.01)

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